

Title: Detecting protostellar jets with the Goddard Fabry-Perot coronagraph, and modification for adaptive optics.

Authors: Bruce Woodgate, Charles Bowers, Carol Grady, Edward Wassell and Povilas Palunas

Abstract: The Goddard Fabry-Perot has been used at the Apache Point Observatory 3.5-m telescope to diagnose jets from young Herbig Ae (HD163296) and T Tauri stars (DL Tau and CW Tau), detected by the Space Telescope Imaging Spectrograph coronagraph on the Hubble Space Telescope. The additional spectral discrimination of the Fabry-Perot allows these faint jets to be detected from the ground, to obtain velocities and densities, and to find further extensions. In order to plan what measurements require space coronagraphs, we need to explore the extent to which coronagraphic detections can be made from the ground, including using adaptive optics. Modifications to the Fabry-Perot tunable narrow band coronagraph for possible use with the AEOS 3.65-m telescope will be described.

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Addresses:

Bruce E. Woodgate,
Code 681,
NASA/ Goddard Space Flight Center,
Greenbelt, MD 20771
Phone: (301)286-5401
Fax: (301)286-1753
Email: Bruce.E.Woodgate@nasa.gov

Charles W. Bowers,
Code 681,
NASA/ Goddard Space Flight Center,
Greenbelt, MD 20771
Phone: (301)286-6804
Fax: (301)286-1753
Email: Charles.W.Bowers@nasa.gov

Carol A. Grady,
Eureka Inc., and
Code 681,
NASA/ Goddard Space Flight Center,
Greenbelt, MD 20771
Phone: (301)286-3748
Fax: (301)286-1753
Email: cgrady@echelle.gsfc.nasa.gov

Edward J. Wassell,
Catholic University of America, and
Code 681,
NASA/ Goddard Space Flight Center,